

V9/01-2025



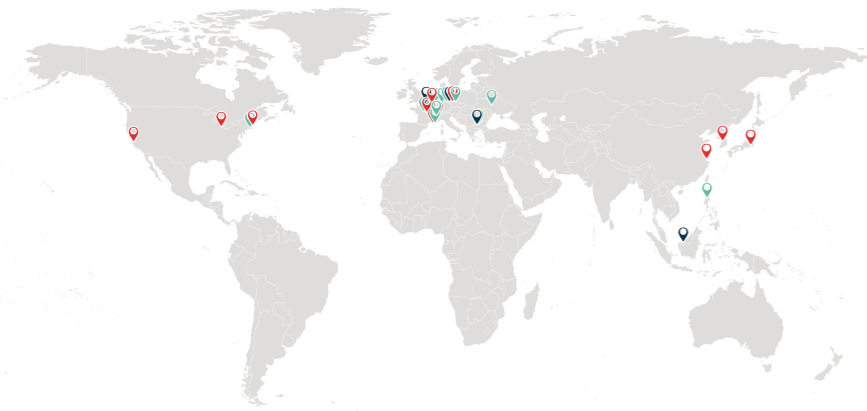
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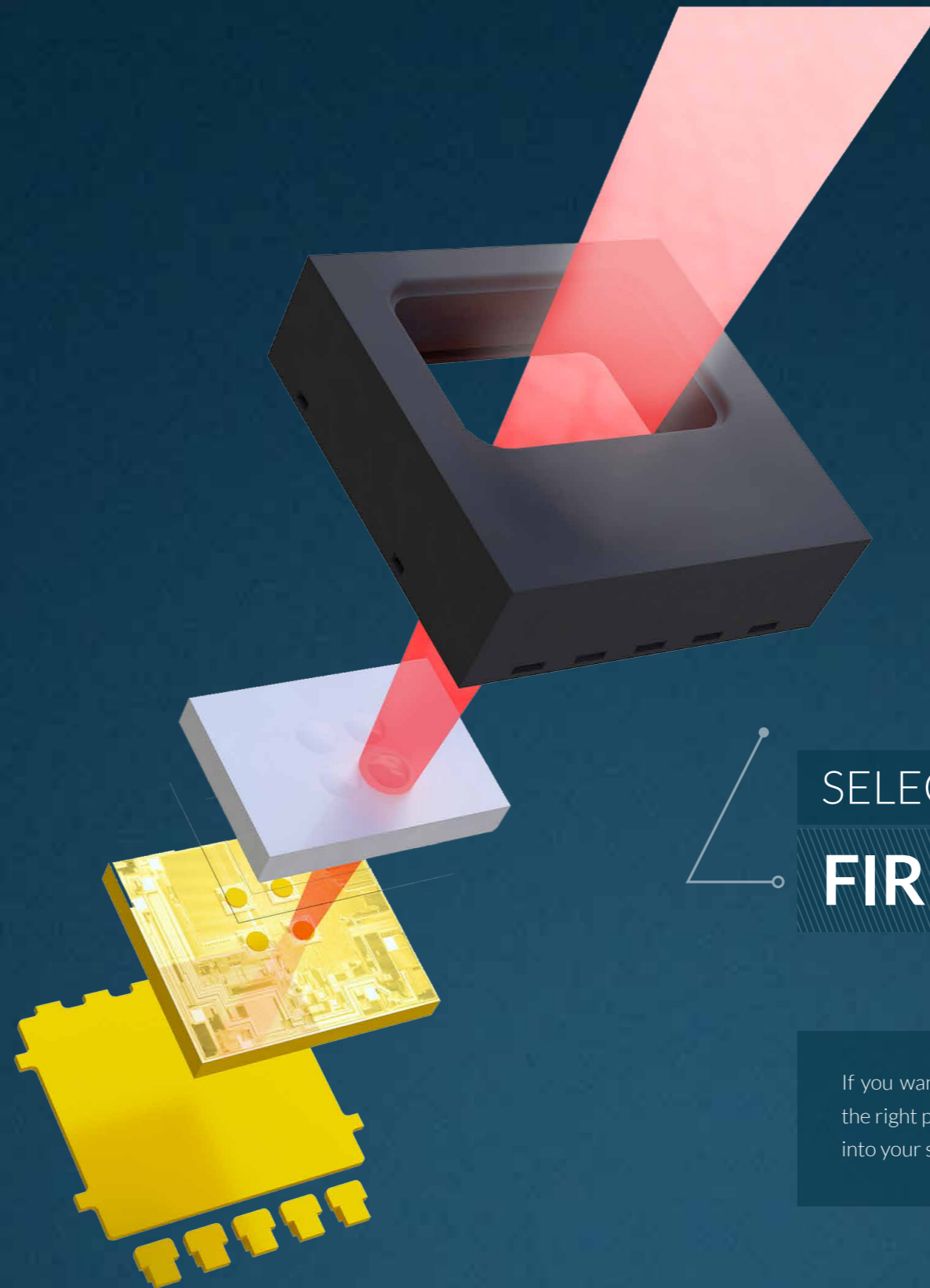
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SELECTION GUIDE

## FIR TEMPERATURE

If you want to measure accurately and contactless, you've come to the right place. We offer a broad range of solutions you can integrate into your systems to measure any temperature range.

Non-contact temperature sensors portfolio: standard accuracy temperature detector

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		height	diameter		
Single pixel	Prod	MLX90614KSF-AAA-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614KSF-ABA-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	120	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614KSF-ACC-000	-40 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel	Prod	MLX90614ESF-AAA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614ESF-ABA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACA-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel	Prod	MLX90614ESF-BAA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Dual pixel	Prod	MLX90614ESF-BBA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCA-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACC-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCC-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACF-000	-40 to 85	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	17,2	9,1	10	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCF-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	17,2	9,1	10	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCH-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	8,3	9,1	12	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCI-000	-40 to 85	-70 to 380	standard	2.6-3.6	<2	<6	TO-39	20,2	9,1	5	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-ACK-000	-40 to 85	-70 to 380	+/-1C to +/-4C (see datasheet)	4.5-5.5	<2	<6	TO-39	8,1	10,2	15	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-BCK-000	-40 to 85	-70 to 380	+/-1C to +/-4C (see datasheet)	2.6-3.6	<2	<6	TO-39	8,1	10,2	15	SMBus or PWM
Single pixel	Prod	MLX90617KSF-ACC-000	0 to 125	-70 to 380	standard	4.5-5.5	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90632SLD-BCB-000	-20 to 85	-20 to 200	+/-1C to +/-4C (see datasheet)	3.0-3.6	<1.4	<2.5	QFN	1	3x3	50	I2C

Non-contact temperature sensors portfolio: medical accuracy temperature detector

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		height	diameter		
Single pixel	Prod	MLX90614ESF-DAA-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCA-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	4,1	9,1	90	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCC-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	8,1	10,2	35	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCH-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	8,3	9,1	12	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90614ESF-DCI-000	-40 to 85	-70 to 380	medical	2.6-3.6	<2	<6	TO-39	20,2	9,1	5	SMBus or PWM
Single pixel, gradient compensated	Prod	MLX90632SLD-DCB-000	-20 to 85	-20 to 100	medical	3.0-3.6	<1.4	<2.5	QFN	1	3x3	50	I2C

Non-contact temperature sensors portfolio: multipixel arrays

Type	Status	Part No.	Operating temp	Object temp	Factory calibrated accuracy	Supply Voltage	Supply current	Sleep current	Package	Dimensions (mm)		Field of View	Output Type
			°C	°C		V	mA	µA		height	diameter		
32x24 array	Prod	MLX90640ESF-BAA-000	-40 to 85	-40 to 300	see datasheet	2.9-3.6	<25	-	TO-39	5,7	9,3	110x75	I2C
32x24 array	Prod	MLX90640ESF-BAB-000	-40 to 85	-40 to 300	see datasheet	2.9-3.6	<25	-	TO-39	11,25	9,3	55x35	I2C
16x12 array	Prod	MLX90641ESF-BCA-000	-40 to 85	-40 to 300	see datasheet	3-3.6	<14	-	TO-39	5,7	9,3	110x75	I2C
16x12 array	Prod	MLX90641ESF-BCB-000	-40 to 85	-40 to 300	see datasheet	3-3.6	<14	-	TO-39	11,25	9,3	55x35	I2C
16x12 array	Prod	MLX90641KSF-BCA-000	-40 to 125	-40 to 300	see datasheet	3-3.6	<14	-	TO-39	5,7	9,3	110x75	I2C
16x12 array	Prod	MLX90641KSF-BCB-000	-40 to 125	-40 to 300	see datasheet	3-3.6	<14	-	TO-39	11,25	9,3	55x35	I2C

